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Help

Logout

Interrupt

Main Menu

Search Form

Posting Counts

Show S Numbers

Edit S Numbers

Preferences

Search Results -

Terms	Documents
636361.pn.	4

Database:

US Patents Full-Text Database
 US Pre-Grant Publication Full-Text Database
 JPO Abstracts Database
 EPO Abstracts Database
Derwent World Patents Index
 IBM Technical Disclosure Bulletins

636361.pn.

Refine Search:

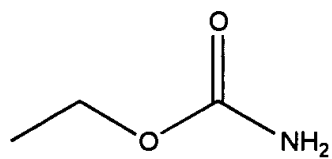
Clear

Search History

Today's Date: 11/1/2001

DB Name	Query	Hit Count	Set Name
DWPI	636361.pn.	4	L12
USPT,PGPB,JPAB,EPAB,DWPI	I10 not I9	12	L11
USPT,PGPB,JPAB,EPAB,DWPI	I7 and I6	15	L10
USPT,PGPB,JPAB,EPAB,DWPI	I8 and I6	3	L9
USPT,PGPB,JPAB,EPAB,DWPI	I1 near I2	78	L8
USPT,PGPB,JPAB,EPAB,DWPI	I1 same I2	2011	L7
USPT,PGPB,JPAB,EPAB,DWPI	I3 near I5	1653	L6
USPT,PGPB,JPAB,EPAB,DWPI	silicone or silicon or polysiloxane or polydimethylsiloxane or polyorganosiloxane	828252	L5
USPT,PGPB,JPAB,EPAB,DWPI	silicon\$3	807236	L4
USPT,PGPB,JPAB,EPAB,DWPI	graft\$3	108234	L3
USPT,PGPB,JPAB,EPAB,DWPI	polyurethane or polyurea	243147	L2
USPT,PGPB,JPAB,EPAB,DWPI	polycondensat\$3	36522	L1

U



urethane

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L11: Entry 11 of 12

File: EPAB

Jan 2, 1997

PUB-NO: EP000751162A1

DOCUMENT-IDENTIFIER: EP 751162 A1

TITLE: Use in and for the preparation of cosmetic or dermatological compositions from polyurethane and/or polyurea blockpolycondensates having silicone grafts

PUBN-DATE: January 2, 1997

INVENTOR-INFORMATION:

NAME

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MOUGIN, NATHALIE

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MONDET, JEAN

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ASSIGNEE-INFORMATION:

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APPL-NO: EP96401141

APPL-DATE: May 28, 1996

PRIORITY-DATA: FR09507731A (June 27, 1995)

INT-CL (IPC): C08G 18/61; A61K 7/48; A61K 7/06

EUR-CL (EPC): C08G018/61; A61K007/48, C08G018/08

ABSTRACT:

Use, in prepn. of cosmetic and dermatological compsn. (A) of a sequenced polycondensate (I) comprising a chain consisting of the repetition of at least one polyurethane and/or polyurea sequence (M) carrying a polysiloxane graft is new.

Also new are polycondensates (Ia) contg. in addn. to M at least one of repetition of a sequence (N) of formula $-(\square-X_3BX_3CONHRNHCO\square)_x-$ (III) repetition of a polyurethane and/or polyurea sequence (G) contg. oligomers of organic polymers and/or repetition of a polysiloxane sequence (L); $X_3 = O$ or NH ; $R =$ divalent (cyclo)aliphatic or aromatic residue; $x = 1-10$; $B =$ divalent hydrocarbyl with nonionic gps. (α , ω -diols, diamines or hydroxyamines, (cyclo)aliphatic or aromatic), anionic (carboxy and/or sulpho) gps., at least partially neutralised, or tert. amino gps., at least partly neutralised, quaternised or converted to betain.

Pref. (I) is multi-sequenced and apart from M also includes: (i) a polyurea/polyurethane (N) contg. nonionic and/or ionic gps.; (ii) G; and/or (iii) L. Partic. M is of formula $-(\square X_1DX_1\square CONHRNHCO-)_x$ $X_1 = O$ or NH ; $D = Z(Q)$; $Z =$ trivalent hydrocarbyl opt. contg. 1 or more heteroatoms, e.g. $(CH_2)_a-CH-CH_2$ where $a = 1-10$; $Q =$ polysiloxane residue; $R =$ divalent (cyclo)aliphatic or aromatic residue. A pref. Q is $(R_1)_2Si-\square-OSi(R_1)_2\square-Si(R_1)_3$ $R_1 = 1-20C$ hydrocarbyl, opt. substd. by 1 or more halo but free of unsaturation, or aromatic gps. and the polysiloxane segment has mean mol. wt. 300-50000. Pref. L are of formula $-(\square X_2PX_2\square CONHRNHCO-)_x$ $P =$ polysiloxane segment; $X_2 = O$ or NH ; R is as R_1 above. A partic. P has formula $-(CH_2)-\square SiMe_2O-\square z-SiMe_2-CH_2)_b$ $b = 1-10$; z is chosen to give segments of mol. wt. 300-50000. Pref. N are of formula (III) but with R more generally defined as any divalent hydrocarbyl residue, nonionic or substd. by positive or negative ionic gps..

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L11: Entry 10 of 12

File: JPAB

Jan 14, 1997

PUB-NO: JP409012425A

DOCUMENT-IDENTIFIER: JP 09012425 A

TITLE: COSMETIC OR DERMATOLOGICAL COMPOSITION AND MULTI-BLOCK POLYCONDENSATION PRODUCT

PUBN-DATE: January 14, 1997

INVENTOR-INFORMATION:

NAME

COUNTRY

MOUGIN, NATHALIE

MONDET, JEAN

ASSIGNEE-INFORMATION:

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L'OREAL SA

APPL-NO: JP08160152

APPL-DATE: June 20, 1996

INT-CL (IPC): A61K 7/00; A61K 7/032; A61K 7/043; A61K 7/075; A61K 7/11; C08G 77/452; C08G 77/458

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a cosmetic or dermatological composition exhibiting excellent additive effect of a film-forming property and a surface property and composed of a polycondensation product of a polyurethane and/or polyurea containing a silicone graft.

SOLUTION: This composition contains at least one kind of a block polycondensation product of a polyurethane and/or polyurea containing a polymer chain formed by the repetition of at least one kind of polyurethane and/or polyurea block [M] containing a polysiloxane graft. The polysiloxane-grafted polyurethane and/or polyurea block [M] is preferably a group of the formula I [X1 is O or NH; D is Z(Q) (Z is a trivalent hydrocarbon group containing hetero-atom; Q is a polysiloxane segment); R is an alkylene]. The group Q is especially preferably the group of the formula II (R1 is a hydrocarbon group, etc.; (m) is an integer). The composition exhibits excellent adhesivity to hair, eyelash, nail and skin.

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